

FIG. 1

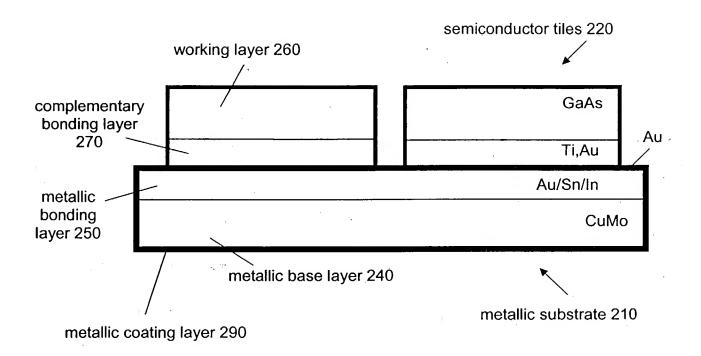


FIG. 2

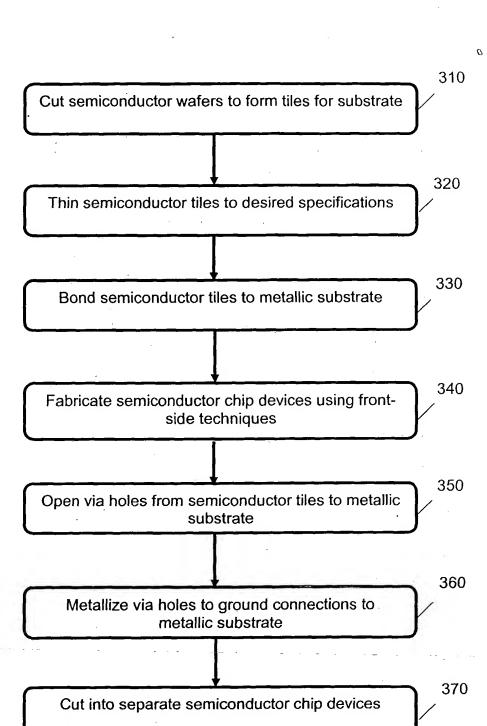
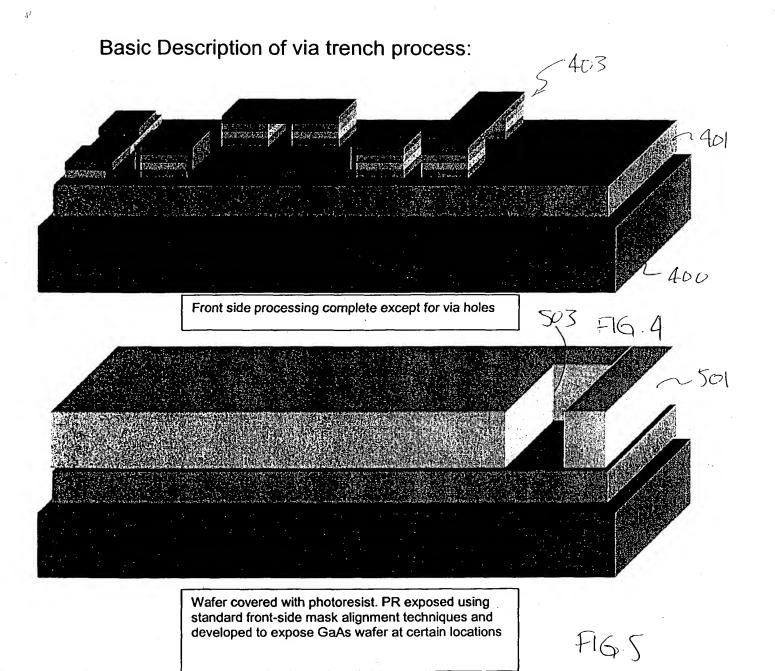
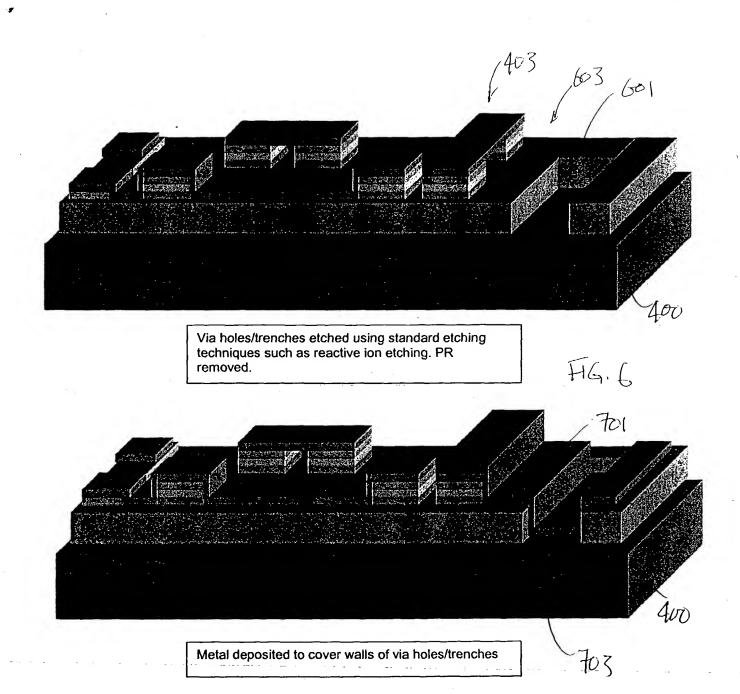


FIG. 3



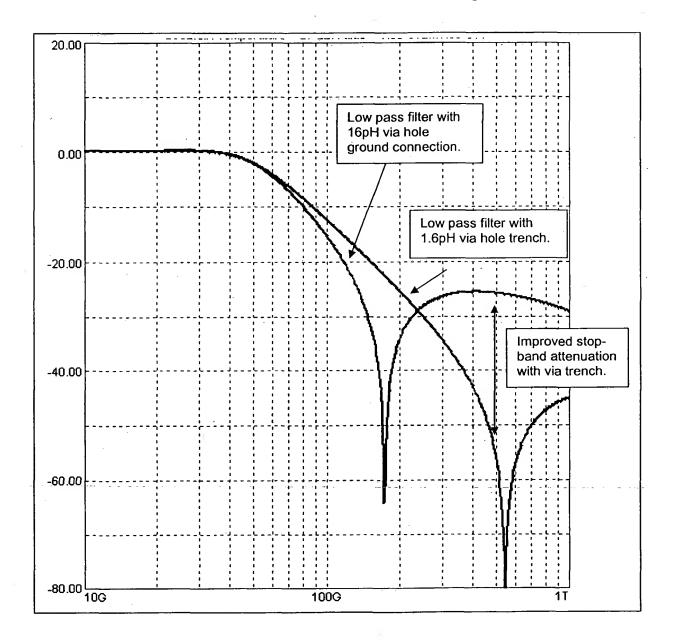


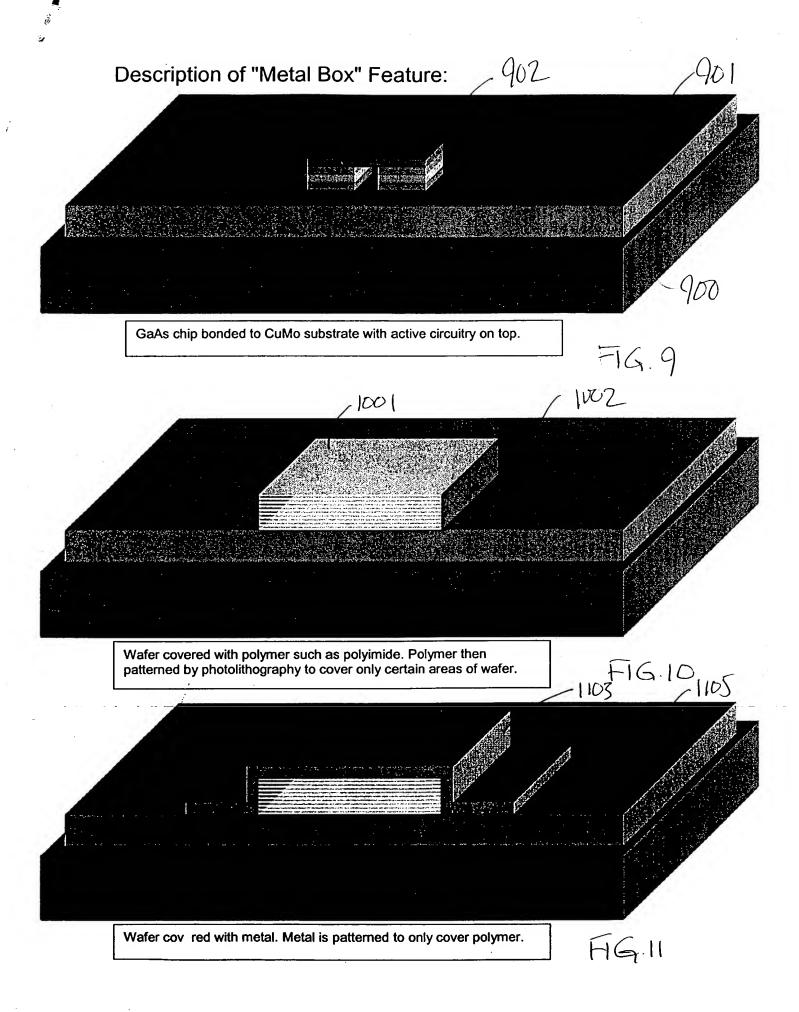
F16.7

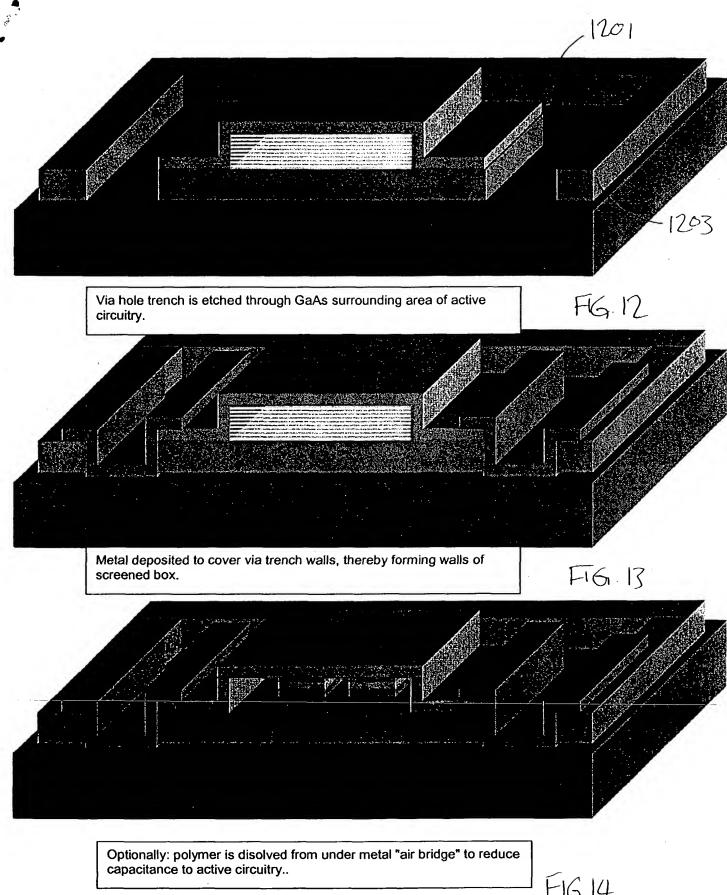
## Notes on via hole parameters:

Standard via holes are round with diameters in range 50-100 microns. They have between 8 and 16pH of inductance. By increasing the perimeter of the via hole eg so that it forms a trench, a much lower inductance eg 1pH can be obtained . This lower inductance is of benefit in circuits such as amplifiers and filters which require low impedance ground connections at very high frequencies.

FIG: 8



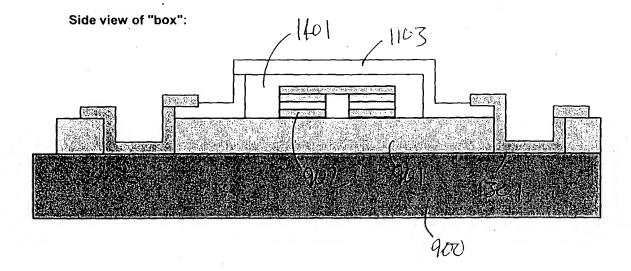




F16.14

## Notes:

Although the diagrams above show the box "top" being formed first, the walls ie trenches could be formed first with the top added later.



F16 15